

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A method of configuring signaling locations within a
~~controlling contraction of a heart suffering from heart failure to~~ monitor ~~improve~~
hemodynamic performance, comprising:

~~positioning receiving electrical~~ signaling electrodes ~~signals from at least a portion of~~
~~the heart~~ along a first and second axis interior to the heart, the second axis being within or
around the left ventricle and being substantially horizontal with respect to the first axis, the
first axis spanning anterior and posterior extremes of a right ventricular septum of the heart,
the first axis being longer than the second axis;

receiving electrical signals from the signaling electrodes indicative of hemodynamic
performance; and

delivering, in response to a certain received signal, stimulation via the signaling
electrodes in at least one of the interventricular septum, a coronary vein of the left ventricle,
and the epicardial wall of the left ventricle.

~~determining a progress of contraction in heart based on the received signals; and~~
~~stimulating a chamber of the heart at a plurality of locations in the chamber based on~~
~~the progress of contraction for treatment of heart failure.~~

Claim 2 (Currently Amended): The method of claim 1, ~~wherein receiving electrical~~
~~signals comprises~~ further comprising:

receiving sensing depolarization signals originating from at least one atrium of the
heart via the signaling electrodes.

Claim 3 (Currently Amended): The method of claim 2, wherein ~~sensing~~ receiving depolarization signals further comprises:

~~sensing~~ receiving depolarization signals from ~~multiple locations~~ within or around the left ventricle.

Claims 4-19 (Canceled).

Claim 20 (Currently Amended): The ~~system~~ method of claim [19] 1, wherein the ~~signaling electrodes at least one sensing element comprises~~ is a plurality of electrodes ~~configured to be installed~~ positioned endocardially in the heart.

Claims 21-26 (Canceled).

Claim 27 (Currently Amended): The method of claim [25] 1, wherein ~~receiving~~ ~~electrical signals comprises:~~ the signaling ~~receiving electrical signals from electrodes~~ are ~~implanted~~ positioned in at least one of the interventricular septum, a coronary vein in the left ventricle, and the epicardial wall of the left ventricle.

Claim 28 (Currently Amended): The method of claim [25] 27, wherein receiving electrical signals includes receiving electrical signals from ~~an~~ a signaling electrode connected to a lead passing through the superior vena cava, the right atrium, the ostium of the coronary sinus, and a coronary vein of the left ventricle.

Claims 29-33 (Canceled).

Claim 34 (Currently Amended): The method of claim [25] 1, wherein delivering the stimulation ~~stimulating the left ventricle of the heart at the plurality of locations in or around the left ventricle~~ further comprises:

stimulating at a first signaling electrode in the interventricular septum and at a second signaling electrode in a coronary vein of the left ventricle.

Claims 35-64 (Canceled).

Claim 65 (New): The method of claim 1, wherein one of the plurality of signaling electrodes is located within the entrance of the coronary sinus along the first axis.

Claim 66 (New): The method of claim 1, further comprising:
positioning the signaling electrodes at equidistant locations along the first and second axes.

Claim 67 (New): A system for monitoring the hemodynamic performance of a heart, comprising:

a plurality of signaling electrodes configured to be positioned at a first and second axis interior to the heart, the second axis being within or around the left ventricle and being substantially horizontal with respect to the first axis, the first axis spanning anterior and posterior extremes of a right ventricular septum of the heart, the first axis being longer than the second axis;

a processor responsive to a certain one of the received electrical signals of the signaling electrodes, to deliver a stimulation signal to the plurality of signaling electrodes in

at least one of the interventricular septum, a coronary vein of the left ventricle, and the epicardial wall of the left ventricle.

Claim 68 (New): The system of claim 67, wherein the received signals are depolarization signals originating from at least one atrium of the heart via the plurality of signaling electrodes.

Claim 69 (New): The system of claim 68, wherein the depolarization signals are sensed by the plurality of signaling electrodes from multiple locations within the left ventricle.

Claim 70 (New): The system of claim 67, wherein the plurality of signaling electrodes is configured to be positioned endocardially in the heart.

Claim 71 (New): The system of claim 67, wherein the stimulation signal is delivered to a first signaling electrode in the interventricular septum and at a second electrode in a coronary vein of the left ventricle.

Claim 72 (New): The system of claim 67, wherein the plurality of signaling electrodes are configured to be at equidistant locations along the first and second axes.

Claim 73 (New): The system of claim 67, wherein one of the plurality of signaling electrodes is located within the entrance of the coronary sinus along the first axis.